

# PATENT ABSTRACTS OF JAPAN

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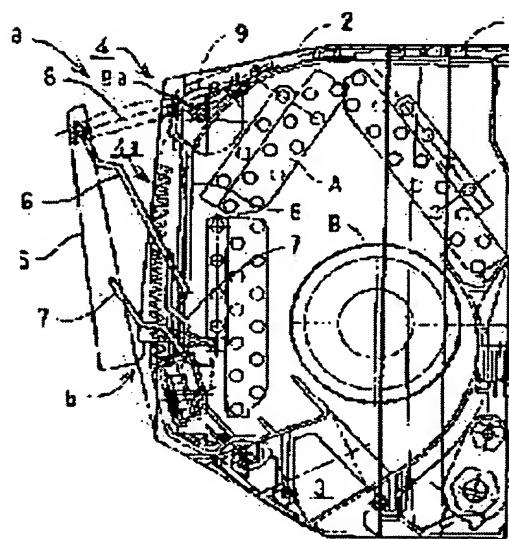
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 (22)Date of filing : 30.09.1998 (72)Inventor : HOSOKAWA YOSHIHIDE

## (54) AIR CONDITIONER

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To provide a wall type air conditioner in which a suction part being opened/closed by an opening/closing decoration plate is provided on the front side of the body so that the suction part can be opened wide and the design is improved by making the inside invisible through the suction part.

**SOLUTION:** Under first state where operation is stopped, forward end part and base end part of upper and lower arms 6, 7 are positioned back and forth through a connecting piece extending back and forth formed at an intermediate part in the longitudinal direction. Upper and lower parts thereof are formed substantially in parallel and the upper part of the lower arm 7 is positioned in front of the lower part of the upper part 6. The lower arm is formed shorter than the upper arm and a decoration plate 5 for opening/closing a suction part 4a is inclined such that the upper part thereof is positioned in front of the lower part.



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**CLAIMS**

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**[Claim(s)]**

[Claim 1] The base which arranged the heat exchanger, the blower fan, etc., and the front cover with which the front face of this base was equipped and which prepared the outlet in the lower part. The intake panel which was prepared in this front cover removable and equipped the front face with the intake section, A point is connected with the panel for closing motion corresponding to the intake section of this intake panel free [ the rotation to the both-sides upper and lower sides of this panel ]. In the air conditioner equipped with the closing motion section in which the end face section consists of arms of the upper and lower sides supported to revolve by the both-sides upper and lower sides of the aforementioned intake panel free [ rotation ], covers the aforementioned intake section in the first condition, and opens the aforementioned intake section in the second condition Through the piece of connection prolonged in the first condition before and after forming in the pars intermedia of a longitudinal direction, make it said point and said end face section located forward and backward, and the arm of said upper and lower sides forms the mutual vertical section almost respectively in parallel. The air conditioner characterized by making said panel incline by forming this Shimo arm in a short dimension rather than an arm same as the above so that the upper part may be ahead located more as compared with the lower part while making it the upper part of said bottom arm located ahead of the lower part of said upper arm.

[Claim 2] The air conditioner according to claim 1 characterized by making the driving gear which drives said closing motion section coordinate the connection section or near [ its ] the point of said upper arm, and said panel.

[Claim 3] The air conditioner according to claim 2 characterized by said driving gear consisting of a drive motor formed in said front cover corresponding to the 1 side upper part of said panel, and a connection rod with which the point was connected the connection section or near [ its ] the point of said upper arm, and said panel while the end face section was coordinated with the driving shaft of this drive motor.

[Claim 4] The air conditioner according to claim 3 characterized by making the gearing of the size engaged mutually prepare and coordinate with the driving shaft of said drive motor, and the end face section of said connection rod.

[Claim 5] The air conditioner according to claim 4 characterized by said gearing consisting of synthetic resin which has self-lubricity.

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**DETAILED DESCRIPTION**

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**[Detailed Description of the Invention]****[0001]**

[Field of the Invention] It is related with the structure which raised design nature as this intake section to the interior could not be easily seen, while prepare the intake section by which this invention is opened [ by the detail ] and closed more by the panel for closing motion to the front face of a body with respect to the air conditioner of a wall type, shut said panel in the state of shutdown, raise design nature, open said panel in operational status, making it raise operation effectiveness and enabling it to open the aforementioned intake section more greatly especially.

**[0002]**

[Description of the Prior Art] The air conditioner of the conventional wall type For example, the base 1 which arranged a heat exchanger A, blower fan B, etc. as drawing 2 R> 2 showed, The front cover 2 with which the front face of this base 1 was equipped and which formed the outlet 3 in the lower part, The intake panel 4 which was prepared in this front cover 2 removable, and equipped the front face with intake section 4a, A point is connected with the panel 5 for closing motion corresponding to intake section 4a of this intake panel 4 free [ the rotation to the both-sides upper and lower sides of this panel 5 ]. The end face section consists of arms 6 and 7 of the upper and lower sides supported to revolve by the both-sides upper and lower sides of the aforementioned intake panel 4 free [ rotation ], and covers the aforementioned intake section 4a in the first condition. Where [ first ] it had the closing motion section which opens the aforementioned intake section 4a in the second condition and operation is suspended It was the configuration which becomes as cover the aforementioned intake section 4a by said panel 5, it enables it to raise design nature, the aforementioned intake section 4a is wide opened in the second condition of being under operation, and arrow heads a and b show, and can inhale indoor air efficiently.

[0003] However, in order to open the aforementioned intake section 4a greatly, to form greatly the dimension of the longitudinal direction of said arms 6 and 7 or to enlarge the rotation include angle of these arms 6 and 7, it had the problem of the interior can come to be seen with the look shown by the arrow head b especially in this case, and spoiling design nature.

**[0004]**

[Problem(s) to be Solved by the Invention] In this invention, the intake section opened and closed by the front face of a body by the panel for closing motion is prepared in view of the above-mentioned trouble. In the state of shutdown, shut said panel, raise design nature, open said panel in operational status, and it is made to raise operation effectiveness. While enabling it to open the aforementioned intake section more greatly especially, it aims at offering the air conditioner of the wall type which raised design nature as the interior could not be easily seen from this intake section.

**[0005]**

[Means for Solving the Problem] The base which arranged the heat exchanger, the blower fan, etc. in order that this invention might solve the above-mentioned technical problem, The front cover with which the front face of this base was equipped and which prepared the outlet in the lower part, and the intake panel which was prepared in this front cover removable and equipped

the front face with the intake section, A point is connected with the panel for closing motion corresponding to the intake section of this intake panel free [ the rotation to the both-sides upper and lower sides of this panel ]. In the air conditioner equipped with the closing motion section in which the end face section consists of arms of the upper and lower sides supported to revolve by the both-sides upper and lower sides of the aforementioned intake panel free [ rotation ], covers the aforementioned intake section in the first condition, and opens the aforementioned intake section in the second condition Through the piece of connection prolonged in the first condition before and after forming in the pars intermedia of a longitudinal direction, make it said point and said end face section located forward and backward, and the arm of said upper and lower sides forms the mutual vertical section almost respectively in parallel. While making it the upper part of said bottom arm located ahead of the lower part of said upper arm, it has the composition of having made said panel inclining so that the upper part may be ahead located more as compared with the lower part, by forming this Shimo arm in a short dimension rather than an arm same as the above.

[0006] Moreover, it has the composition of having made the driving gear which drives said closing motion section coordinating the connection section or near [ its ] the point of said upper arm, and said panel.

[0007] Moreover, said driving gear has the composition of consisting of a drive motor formed in said front cover corresponding to the 1 side upper part of said panel, and a connection rod with which the point was connected the connection section or near [ its ] the point of said upper arm, and said panel while the end face section was coordinated with the driving shaft of this drive motor.

[0008] Moreover, it has the composition of having made the gearing of the size engaged mutually preparing and coordinating with the driving shaft of said drive motor, and the end face section of said connection rod.

[0009] Furthermore, said gearing has composition which consists of synthetic resin which has self-lubricity.

[0010]

[Embodiment of the Invention] Hereafter, the gestalt of operation of this invention is explained to a detail as an example based on a drawing. The base in which 1 arranged a heat exchanger A, blower fan B, etc. in drawing 1, The front cover which the front face of this base 1 was equipped with 2, and equipped the lower part with the outlet 3, The intake panel which 4 was prepared in this front cover 2 removable, and equipped the front face with intake section 4a, The panel for closing motion corresponding to intake section 4a of this intake panel 4 in 5, and 6 and 7 are connected free [ the rotation to the both-sides upper and lower sides of this panel 5 ] for a point, and it is the up-and-down arm supported to revolve free [ the rotation to the both-sides upper and lower sides of the aforementioned intake panel 4 ] for the end face section. The closing motion section which opened the aforementioned intake section 4a in the second condition of being under operation, by these panels 5 and the up-and-down arms 6 and 7 while closing the aforementioned intake section 4a, where [ first ] operation is suspended is constituted.

[0011] In the first condition that the arms 6 and 7 of said upper and lower sides suspended operation Through the piece of connection prolonged before and after forming in the pars intermedia of a longitudinal direction, make it said point and said end face section located forward and backward, and the mutual vertical section is formed almost respectively in parallel. While making it the upper part of said bottom arm 7 located ahead of the lower part of said upper arm 6 It has the composition of having made said panel 5 inclining by forming this Shimo arm 7 in a short dimension rather than the arm 6 same as the above so that the upper part may be ahead located more as compared with the lower part. By this In the second condition that especially the upper arm 6 can be formed more now with a long dimension, and the arms 6 and 7 of said upper and lower sides are under operation While enabling it to fully inhale the intake air which opens the aforementioned intake section 4a greatly, and is shown by arrow heads a and b It becomes the structure it was made not to spoil design nature as the interior could not be easily seen by making said panel 5 incline so that the upper part may be ahead located more as

compared with the lower part.

[0012] Moreover, by having made the driving gear later mentioned for driving said closing motion section coordinate the connection section or near [ its ] the point of said upper arm 6, and said panel 5 While the aforementioned intake section 4a is closed in the first condition of having suspended operation as said closing motion section can be driven automatically, and raising design nature In the second condition of being under operation, while intake air can fully absorb the aforementioned intake section 4a, it has composition it enabled it to open so that the interior cannot be easily seen.

[0013] Moreover, while the end face section is coordinated with the drive motor 9 with which the driving gear which drives said closing motion section automatically was formed in said front cover 2 corresponding to the 1 side upper part of said panel 5 at driving shaft 9a of this drive motor 9 The point has composition which consists of a connection rod 8 connected the connection section or near [ its ] the point of said upper arm 6, and said panel 5. By this Said panel 5 supported by the arms 6 and 7 of said upper and lower sides is driven correctly, and it becomes the structure which enabled it to open and close the aforementioned intake section 4a smoothly according to the condition under the time of shutdown, or operation etc.

[0014] Moreover, it has the composition of having enabled it to transmit the driving force of said drive motor 9 to said connection rod 8 correctly, by having made the large and small gearing which engages mutually and which does not illustrate prepare and coordinate with driving shaft 9a of said drive motor 9, and the end face section of said connection rod 8.

[0015] Furthermore, said gearing can make this gearing engage mutual more smoothly by having considered as the configuration which consists of synthetic resin which has self-lubricity like polyacetal now.

[0016] As drawing 1 shows, by the above configuration the arms 6 and 7 of said upper and lower sides Through the piece of connection prolonged in the first condition of having suspended operation before and after forming in the pars intermedia of a longitudinal direction, make it said point and said end face section located forward and backward, and the mutual vertical section is formed almost respectively in parallel. While making it the upper part of said bottom arm 7 located ahead of the lower part of said upper arm 6 Since it was made to incline by forming this Shimo arm 7 in a short dimension rather than the arm 6 same as the above so that the upper part may be ahead located more in said panel 5 as compared with the lower part In the second condition that especially the upper arm 6 can be formed more now with a long dimension, and the arms 6 and 7 of said upper and lower sides are under operation While enabling it to fully inhale the intake air which opens the aforementioned intake section 4a greatly, and is shown by arrow heads a and b It becomes the air conditioner of the wall type it was made not to spoil design nature as the interior could not be easily seen by making said panel 5 incline so that the upper part may be ahead located more as compared with the lower part.

[0017]

[Effect of the Invention] It becomes the air conditioner of the wall type which raised design nature as this intake section to the interior could not be easily seen, while prepare the intake section which is opened and closed by the panel for closing motion to the front face of a body according to [ as explained above ] this invention, shut said panel in the state of shutdown, raise design nature, open said panel in operational status, making it raise operation effectiveness and enabling it to open the aforementioned intake section more greatly especially.

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**DESCRIPTION OF DRAWINGS**

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[Brief Description of the Drawings]

[Drawing 1] It is the sectional view of the air conditioner of the wall type by this invention.

[Drawing 2] It is the sectional view of the air conditioner of the wall type by the conventional example.

[Description of Notations]

- 1 Base
- 2 Front Cover
- 3 Outlet
- 4 Intake Panel
- 4a Intake section
- 5 Panel
- 6 Upper Arm
- 7 Bottom Arm
- 8 Connection Rod
- 9 Drive Motor
- 9a Driving shaft
- A Heat exchanger
- B Blower fan

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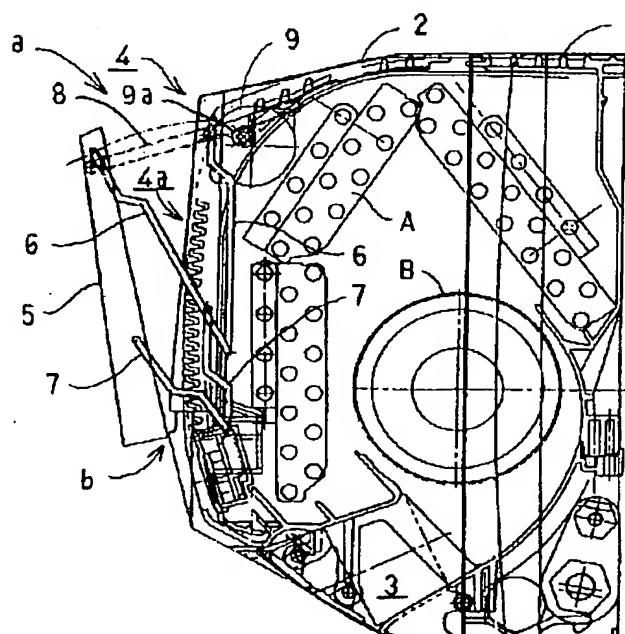
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(54)【発明の名称】 空気調和機

(57)【要約】

【課題】 本体の前面に開閉用の化粧板により開閉される吸込部を設けて、同吸込部をより大きく開放できるようにする一方、同吸込部から内部が見えにくいようにして意匠性を高めた壁掛式の空気調和機を提供する。

【解決手段】 上下のアーム6および7は、運転を停止した第一の状態において、長手方向の中間部に形成された前後に延びる接続片を介して前記先端部および前記基端部が前後に位置するようにし、且つ互いの上下部を夫々ほぼ平行に形成して、前記上アーム6の下部の前方に前記下アーム7の上部が位置するようにするとともに、同下アームを同上アームよりも短寸法に形成することにより、吸込部4aを開閉する化粧板5を、その下部に比して上部が前方に位置するように傾斜させた。



## 【特許請求の範囲】

【請求項1】 熱交換器および送風ファン等を配設したベースと、同ベースの前面に装着されて下部に吹出口を設けた前面カバーと、同前面カバーに着脱可能に設けられて前面に吸込部を備えた吸込パネルと、同吸込パネルの吸込部に対応する開閉用の化粧板と、先端部が同化粧板の両側上下に回動自在に連結され、基端部が前記吸込パネルの両側上下に回動自在に軸支された上下のアームとで構成されて第一の状態で前記吸込部を遮蔽し、第二の状態で前記吸込部を開放する開閉部とを備えた空気調和機において、

前記上下のアームは、第一の状態において、長手方向の中間部に形成された前後に延びる接続片を介して前記先端部および前記基端部が前後に位置するようにし、且つ互いの上下部を夫々ほぼ平行に形成して、前記上アームの下部の前方に前記下アームの上部が位置するようにするとともに、同下アームを同上アームよりも短寸法に形成することにより、前記化粧板を、その下部に比して上部がより前方に位置するように傾斜させたことを特徴とする空気調和機。

【請求項2】 前記上アームの先端部と、前記化粧板との連結部またはその近傍に、前記開閉部を駆動する駆動装置を連係させたことを特徴とする請求項1に記載の空気調和機。

【請求項3】 前記駆動装置が、前記化粧板の一側上部に対応して前記前面カバーに設けられた駆動モータと、基端部が同駆動モータの駆動軸に連係されるとともに、先端部が前記上アームの先端部と前記化粧板との連結部またはその近傍に連結された連結ロッドとからなることを特徴とする請求項2に記載の空気調和機。

【請求項4】 前記駆動モータの駆動軸と前記連結ロッドの基端部とに、互いに歯合する大小の歯車を設けて連係させたことを特徴とする請求項3に記載の空気調和機。

【請求項5】 前記歯車が、自己潤滑性を有する合成樹脂からなることを特徴とする請求項4に記載の空気調和機。

## 【発明の詳細な説明】

## 【0001】

【発明の属する技術分野】 本発明は、壁掛式の空気調和機に係わり、より詳細には、本体の前面に開閉用の化粧板により開閉される吸込部を設け、運転停止状態では前記化粧板を閉めて意匠性を高め、運転状態では前記化粧板を開いて運転効率を向上させるようにし、とくに、前記吸込部をより大きく開放できるようにする一方、同吸込部から内部が見えにくくして意匠性を高めた壁掛式の空気調和機に関する。

## 【0002】

【従来の技術】 従来の壁掛式の空気調和機は、例えば図2で示すように、熱交換器Aおよび送風ファンB等を配

設したベース1と、同ベース1の前面に装着されて下部に吹出口3を設けた前面カバー2と、同前面カバー2に着脱可能に設けられて前面に吸込部4aを備えた吸込パネル4と、同吸込パネル4の吸込部4aに対応する開閉用の化粧板5と、先端部が同化粧板5の両側上下に回動自在に連結され、基端部が前記吸込パネル4の両側上下に回動自在に軸支された上下のアーム6および7とで構成されて第一の状態で前記吸込部4aを遮蔽し、第二の状態で前記吸込部4aを開放する開閉部とを備え、運転を停止した第一の状態では、前記吸込部4aを前記化粧板5で遮蔽して意匠性を高めることができるようになり、運転中である第二の状態では、前記吸込部4aを開放して、矢印aおよびbで示すように室内空気を効率よく吸い込めるようにしてなる構成であった。

【0003】 しかしながら、前記吸込部4aを大きく開放するには、前記アーム6および7の長手方向の寸法を大きく形成するか、もしくは、同アーム6および7の回動角度を大きくする必要が生じるようになるため、とくにこの場合は、矢印bで示す視線により内部が見えてしまうようになって意匠性を損ねてしまうという問題を有していた。

## 【0004】

【発明が解決しようとする課題】 本発明においては、上記の問題点に鑑み、本体の前面に開閉用の化粧板により開閉される吸込部を設け、運転停止状態では前記化粧板を閉めて意匠性を高め、運転状態では前記化粧板を開いて運転効率を向上させるようにし、とくに、前記吸込部をより大きく開放できるようにする一方、同吸込部から内部が見えにくくして意匠性を高めた壁掛式の空気調和機を提供することを目的とする。

## 【0005】

【課題を解決するための手段】 本発明は、上記課題を解決するため、熱交換器および送風ファン等を配設したベースと、同ベースの前面に装着されて下部に吹出口を設けた前面カバーと、同前面カバーに着脱可能に設けられて前面に吸込部を備えた吸込パネルと、同吸込パネルの吸込部に対応する開閉用の化粧板と、先端部が同化粧板の両側上下に回動自在に連結され、基端部が前記吸込パネルの両側上下に回動自在に軸支された上下のアームとで構成されて第一の状態で前記吸込部を遮蔽し、第二の状態で前記吸込部を開放する開閉部とを備えた空気調和機において、前記上下のアームは、第一の状態において、長手方向の中間部に形成された前後に延びる接続片を介して前記先端部および前記基端部が前後に位置するようにし、且つ互いの上下部を夫々ほぼ平行に形成して、前記上アームの下部の前方に前記下アームの上部が位置するようにするとともに、同下アームを同上アームよりも短寸法に形成することにより、前記化粧板を、その下部に比して上部がより前方に位置するように傾斜させた構成となっている。

【0006】また、前記上アームの先端部と、前記化粧板との連結部またはその近傍に、前記開閉部を駆動する駆動装置を連係させた構成となっている。

【0007】また、前記駆動装置が、前記化粧板の一側上部に対応して前記前面カバーに設けられた駆動モータと、基端部が同駆動モータの駆動軸に連係されるとともに、先端部が前記上アームの先端部と前記化粧板との連結部またはその近傍に連結された連結ロッドとからなる構成となっている。

【0008】また、前記駆動モータの駆動軸と前記連結ロッドの基端部とに、互いに歯合する大小の歯車を設けて連係させた構成となっている。

【0009】更に、前記歯車が、自己潤滑性を有する合成樹脂からなる構成となっている。

【0010】

【発明の実施の形態】以下、本発明の実施の形態を図面に基づいた実施例として詳細に説明する。図1において、1は熱交換器Aおよび送風ファンB等を配設したベース、2は同ベース1の前面に装着されて下部に吹出口3を備えた前面カバー、4は同前面カバー2に着脱可能に設けられて前面に吸込部4aを備えた吸込パネル、5は同吸込パネル4の吸込部4aに対応する開閉用の化粧板、6および7は先端部が同化粧板5の両側上下に回動自在に連結され、基端部が前記吸込パネル4の両側上下に回動自在に軸支された上下のアームで、これら化粧板5および上下のアーム6および7により、運転を停止した第一の状態では前記吸込部4aを閉じる一方、運転中である第二の状態では前記吸込部4aを開放するようにした開閉部が構成されている。

【0011】前記上下のアーム6および7は、運転を停止した第一の状態において、長手方向の中間部に形成された前後に延びる接続片を介して前記先端部および前記基端部が前後に位置するようにし、且つ互いの上下部を夫々ほぼ平行に形成して、前記上アーム6の下部の前方に前記下アーム7の上部が位置するようにするとともに、同下アーム7を同上アーム6よりも短寸法に形成することにより、前記化粧板5を、その下部に比して上部がより前方に位置するように傾斜させた構成となっており、これによって、前記上下のアーム6および7を、とくに上アーム6をより長寸法で形成できるようになり、運転中である第二の状態において、前記吸込部4aを大きく開放して矢印aおよびbで示す吸込空気が充分に吸い込めるようにするとともに、前記化粧板5を、その下部に比して上部がより前方に位置するように傾斜させることにより、内部が見えにくいようにして意匠性を損ねることがないようにした構造となる。

【0012】また、前記上アーム6の先端部と、前記化粧板5との連結部またはその近傍に、前記開閉部を駆動するための後述する駆動装置を連係させたことにより、前記開閉部を自動的に駆動できるようにして、運転を停

止した第一の状態において、前記吸込部4aを閉じて意匠性を向上させるとともに、運転中である第二の状態において、前記吸込部4aを吸込空気が充分に吸い込める同時に、内部が見えにくく開放できるようにした構成となっている。

【0013】また、前記開閉部を自動的に駆動する駆動装置が、前記化粧板5の一側上部に対応して前記前面カバー2に設けられた駆動モータ9と、基端部が同駆動モータ9の駆動軸9aに連係されるとともに、先端部が前記上アーム6の先端部と前記化粧板5との連結部またはその近傍に連結された連結ロッド8とからなる構成となっており、これによって、前記上下のアーム6および7により支持された前記化粧板5を正確に駆動して、運転停止時または運転中などの状態に応じて、前記吸込部4aを円滑に開閉できるようにした構造となる。

【0014】また、前記駆動モータ9の駆動軸9aと前記連結ロッド8の基端部とに、互いに歯合する図示しない大小の歯車を設けて連係させたことにより、前記駆動モータ9の駆動力を、前記連結ロッド8に正確に伝達できるようにした構成となっている。

【0015】更に、前記歯車が、例えばポリアセタールなどのように、自己潤滑性を有する合成樹脂からなる構成としたことにより、同歯車を、互いにより円滑に歯合させることができるようにになっている。

【0016】以上の構成により、図1で示すように、前記上下のアーム6および7は、運転を停止した第一の状態において、長手方向の中間部に形成された前後に延びる接続片を介して前記先端部および前記基端部が前後に位置するようにし、且つ互いの上下部を夫々ほぼ平行に形成して、前記上アーム6の下部の前方に前記下アーム7の上部が位置するようにするとともに、同下アーム7を同上アーム6よりも短寸法に形成することにより、前記化粧板5を、その下部に比して上部がより前方に位置するように傾斜させたので、前記上下のアーム6および7を、とくに上アーム6をより長寸法で形成できるようになり、運転中である第二の状態において、前記吸込部4aを大きく開放して矢印aおよびbで示す吸込空気が充分に吸い込めるようにするとともに、前記化粧板5を、その下部に比して上部がより前方に位置するように傾斜させることにより、内部が見えにくくして意匠性を損ねることがないようにした壁掛式の空気調和機となる。

【0017】

【発明の効果】以上説明したように、本発明によれば、本体の前面に開閉用の化粧板により開閉される吸込部を設け、運転停止状態では前記化粧板を閉めて意匠性を高め、運転状態では前記化粧板を開いて運転効率を向上させるようにし、とくに、前記吸込部をより大きく開放できるようにする一方、同吸込部から内部が見えにくくして意匠性を高めた壁掛式の空気調和機となる。

## 【図面の簡単な説明】

【図1】本発明による壁掛式の空気調和機の断面図である。

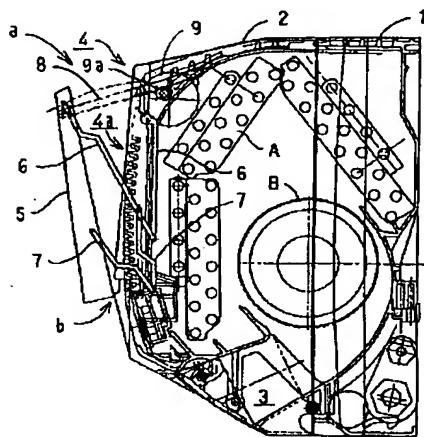
【図2】従来例による壁掛式の空気調和機の断面図である。

## 【符号の説明】

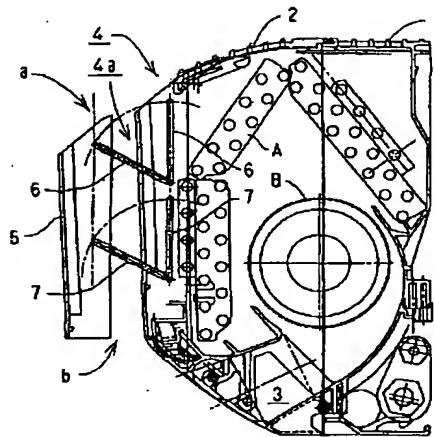
- 1 ベース
- 2 前面カバー
- 3 吹出口
- 4 吸込パネル

- 4a 吸込部
- 5 化粧板
- 6 上アーム
- 7 下アーム
- 8 連結ロッド
- 9 駆動モータ
- 9a 駆動軸
- A 热交換器
- B 送風ファン

【図1】



【図2】



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